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JUN 03 2013  
PRO

LAND APPLICATION OF BIOSOLIDS  
MACK BERRYMAN

SU01 (FIELDS 1 – 11)  
SURRY COUNTY, VIRGINIA  
MAY 2013



May 14, 2013

Mr. Seth Mullins  
Dept. of Environmental Quality  
Piedmont Regional Office  
4949-A Cox Road  
Glen Allen, VA 23060

Dear Mr. Mullins:

Transmitted herein for your consideration is land application site for Mack Berryman (designated as SU 01, (fields 1-11) located in Surry County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink that reads "D. Steve McMahon". The signature is written in a cursive, flowing style.

D. Steve McMahon  
Sr. Technical Services Director

/cmw



## FIELD SUMMARY SHEET

**Mack Berryman**

**SU01**

SYNAGRO FIELD #	GROSS ACRES	NET ACRES	FSA TRACT #	FSA FIELD #	TOPO QUAD	OWNER
01-01	2.5	2.2	298	1	Runnymede	Ethel E & E McDonald Berryman
01-02	5.3	4.0	298	2	Runnymede	Ethel E & E McDonald Berryman
01-03	13.7	13.5	298	3	Runnymede	Ethel E & E McDonald Berryman
01-04	25.0	23.3	298	4, 5	Runnymede	Ethel E & E McDonald Berryman
01-05	15.4	14.9	None	None	Runnymede	Beechland Farms, Inc.
01-06	30.0	30.0	298/None	7, 8/None	Runnymede	Beechland Farms, Inc. Ethel E Berryman
01-07	7.3	6.5	298	6	Runnymede	Ethel E Berryman
01-08	11.8	11.7	235	3	Runnymede	Ethel E & E McDonald Berryman
01-09	33.9	33.4	235	2	Runnymede	Ethel E & E McDonald Berryman
01-10	11.7	11.3	235	1	Runnymede	Ethel E & E McDonald Berryman
01-11	95.0	92.8	235	None	Runnymede	Ethel E & E McDonald Berryman
<b>TOTALS:</b>	<b>251.6</b>	<b>243.6</b>				

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION  
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

**PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS**

A. This land application agreement is made on 2-13-13 between Beechland Farms referred to here as "Landowner", and Synagro, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

**Landowner:**

The Landowner is the owner of record of the real property located in Surry, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>	<u>Tax Parcel ID</u>
<u>41-31</u>	<u>41-27</u>		
<u>41-60A</u>			
<u>41-33</u>			
<u>41-61</u>			
<u>41-28</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one:

- ☒ The Landowner is the sole owner of the properties identified herein.  
☐ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

Mack Berryman General Partner    [Signature]    3192 Beechland Rd  
Landowner – Printed Name, Title    Signature    Mailing Address EL Beron Va  
23883

**Permittee:**

Synagro, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

D. Steve McMahon    [Signature]    10647 Tidewater Tr.  
Permittee – Authorized Representative    Signature    Mailing Address Champlain VA 22438  
Printed Name



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Check one:

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<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No	X Yes <input type="checkbox"/> No

Mack Berryman General Partner X m.b.      3192 Beechland Rd  
Landowner – Printed Name, Title      Signature      Mailing Address El Beron Va 23883

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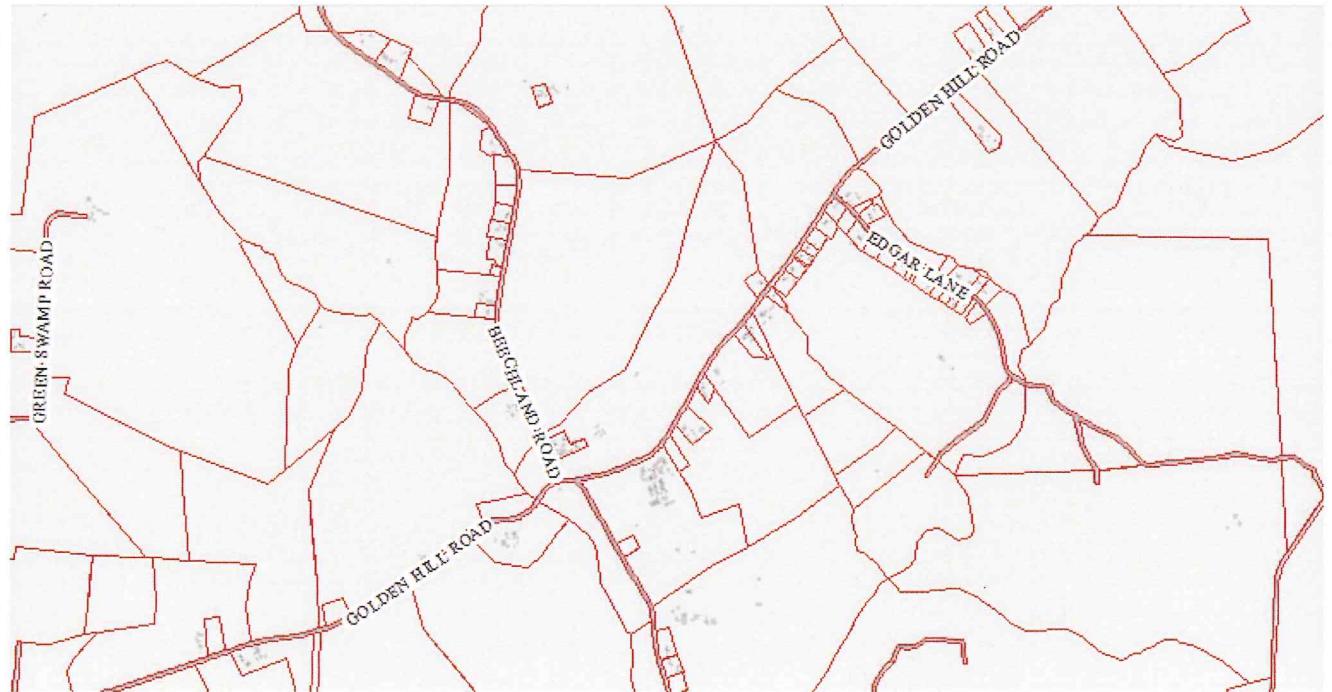
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D. Steve McMahon      D. Steve McMahon      10647 Tidewater Tr.  
Permittee – Authorized Representative      Signature      Mailing Address Champlain, VA 22438  
Printed Name

## Tax ID Landowner Identification Sheet

<b>Landowner</b>	<b>Field #</b>	<b>Tax ID</b>
Ethel E & E McDonald Berryman	01-01	41 - 60A
Ethel E & E McDonald Berryman	01-02	41 - 60A
Ethel E & E McDonald Berryman	01-03	41 - 60A
Ethel E & E McDonald Berryman	01-04	41 - 60A
Beechland Farms, Inc.	01-05	41 - 61
Beechland Farms, Inc.	01-06	41 - 61
Ethel E Berryman		41 - 28
Ethel E Berryman	01-07	41 - 28
Ethel E & E McDonald Berryman	01-08	41 - 33
Ethel E & E McDonald Berryman	01-09	41 - 33
Ethel E & E McDonald Berryman	01-10	41 - 31
Ethel E & E McDonald Berryman	01-11	41 - 31

<b>Field #</b>	<b>Latitude (north)</b>	<b>Longitude (west)</b>
01-01	37 <sup>0</sup> 05' 15.19"	76 <sup>0</sup> 49' 03.63"
01-02	37 <sup>0</sup> 05' 15.56"	76 <sup>0</sup> 48' 56.32"
01-03	37 <sup>0</sup> 05' 20.31"	76 <sup>0</sup> 48' 50.08"
01-04	37 <sup>0</sup> 05' 29.23"	76 <sup>0</sup> 48' 41.46"
01-05	37 <sup>0</sup> 05' 14.28"	76 <sup>0</sup> 48' 38.78"
01-06	37 <sup>0</sup> 05' 07.06"	76 <sup>0</sup> 48' 37.88"
01-07	37 <sup>0</sup> 05' 11.38"	76 <sup>0</sup> 48' 52.29"
01-08	37 <sup>0</sup> 05' 26.92"	76 <sup>0</sup> 49' 02.52"
01-09	37 <sup>0</sup> 05' 34.26"	76 <sup>0</sup> 48' 59.20"
01-10	37 <sup>0</sup> 05' 29.06"	76 <sup>0</sup> 49' 12.93"
01-11	37 <sup>0</sup> 05' 43.58"	76 <sup>0</sup> 48' 48.69"



**TAX MAP**



# MAP LEGEND



House/Dwelling with a well



Rock Outcrop



Well



Lake/Pond



Slope which exceeds 15%



Intermittent Stream



Stream/River



Agricultural/Drainage Ditch



Field boundary



Property Line



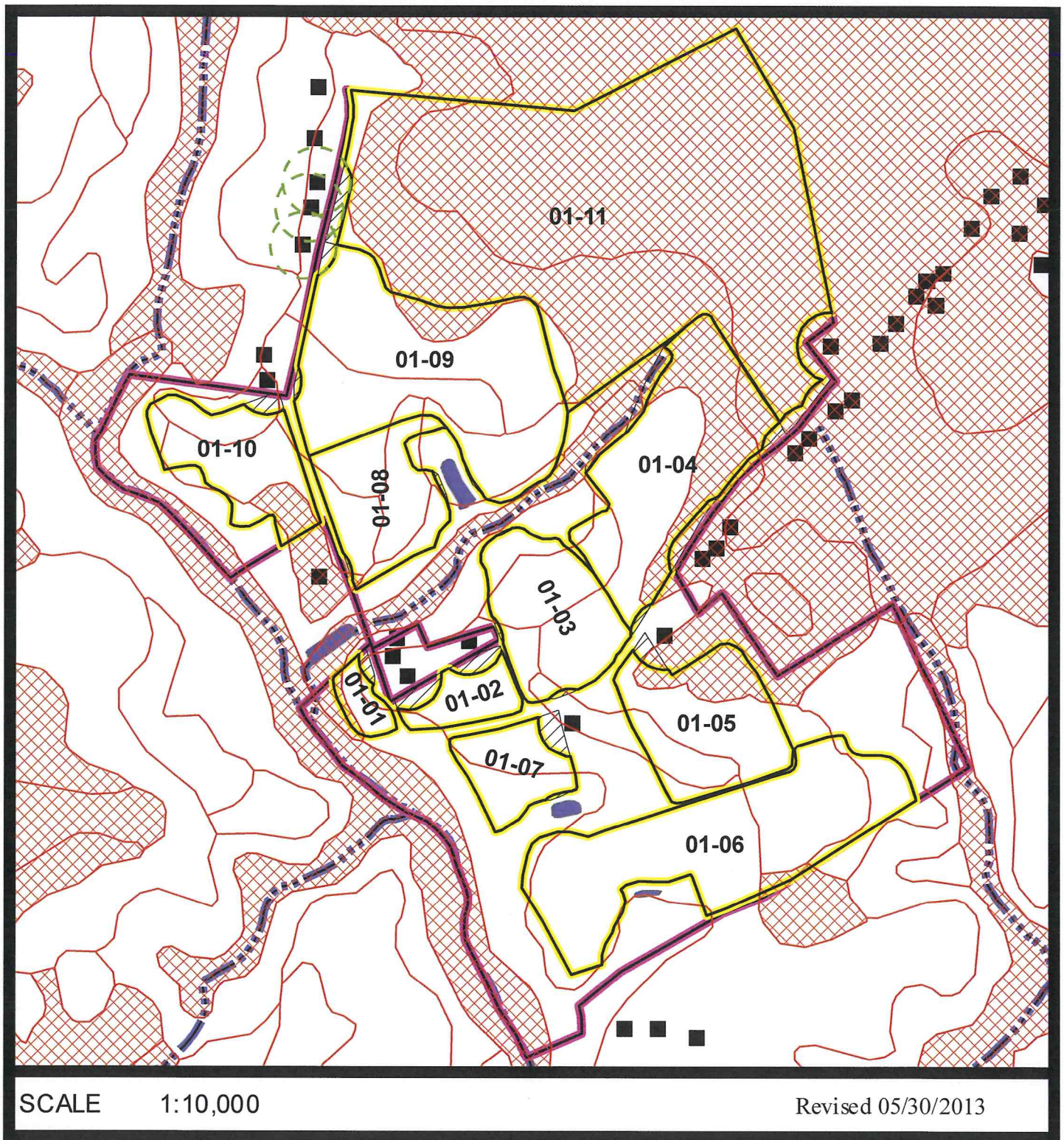
## Environmentally Sensitive Areas

Field	Reason for Sensitive Area
01-01	High Water Table (Map Unit 2A – 17%) Flooded Soils (Map Unit 2A – 17%) Poor Drainage (Map Unit 2A – 17%)
01-02	None
01-03	None
01-04	High Water Table (Map Units 17A, 31A – 44%)
01-05	High Water Table (Map Unit 17A – 23%)
01-06	None
01-07	None
01-08	None
01-09	High Water Table (Map Unit 17A – 7%)
01-10	High Leaching Potential (Map Unit 35B – 15%)
01-11	High Water Table (Map Units 17A, 31A – 100%)

## Surry County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental
		High Water	Flooded	
2A	Bibb	Sept – July	Nov – Jun	Drainage
3A	Bohicket		Jan – Dec	
7A	Chickahominy	Nov – April		
17A	Jedburg	Nov – April		
19B	Kenansville			Leaching
20A	Kinston	Oct – June	Nov – June	
21B	Lakeland			Leaching
22A	Lawnes	Jan – Dec	Jan – Dec	Drainage
23A	Levy	Jan – Dec	Jan – Dec	Drainage
24A, 24B	Montross	Dec – April		
25A	Nahunta	Dec – May		
27A	Nawney	Jan – Dec	Jan – Dec	
29A	Newflat	Nov – April		
31A	Rains	Nov – April		
32B	Rumford			Leaching
35B	Uchee			Leaching



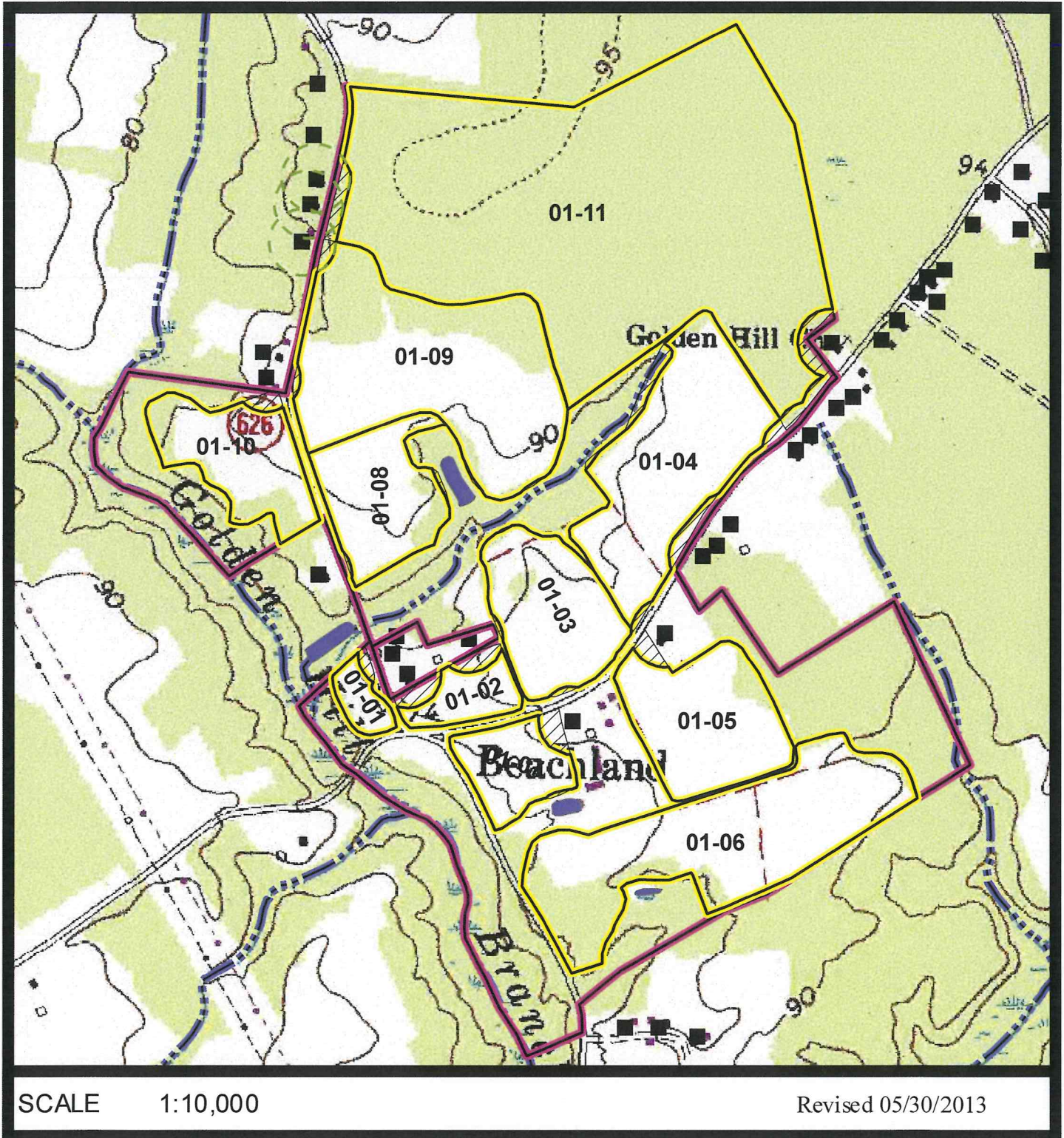


## SOIL MAP

 Environmentally Sensitive Areas



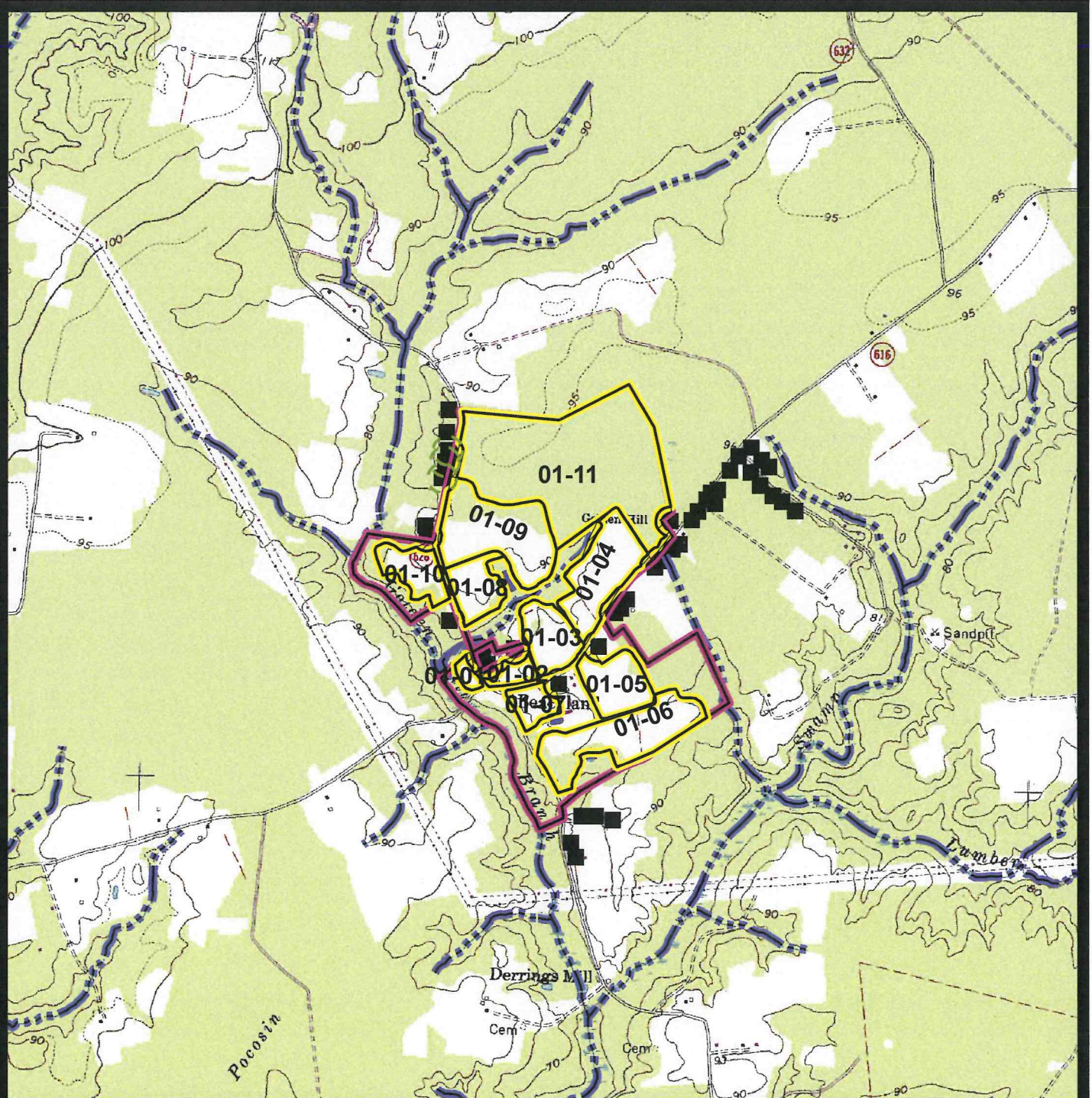




## TOPO MAP







SCALE 1:24,000

Revised 05/30/2013

TOPO MAP







**LOCATION MAP**

